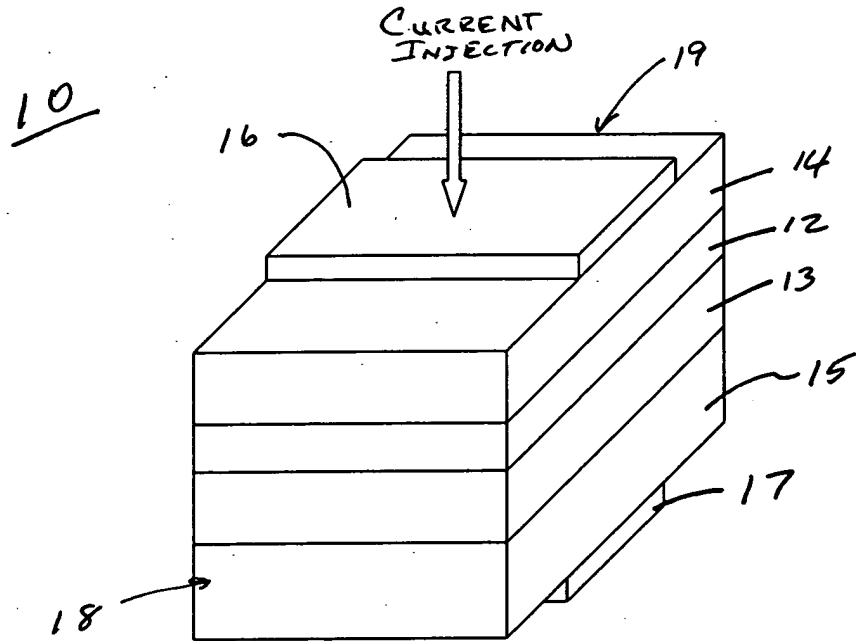


Fig. 1



2051624230US

Fig. 2A

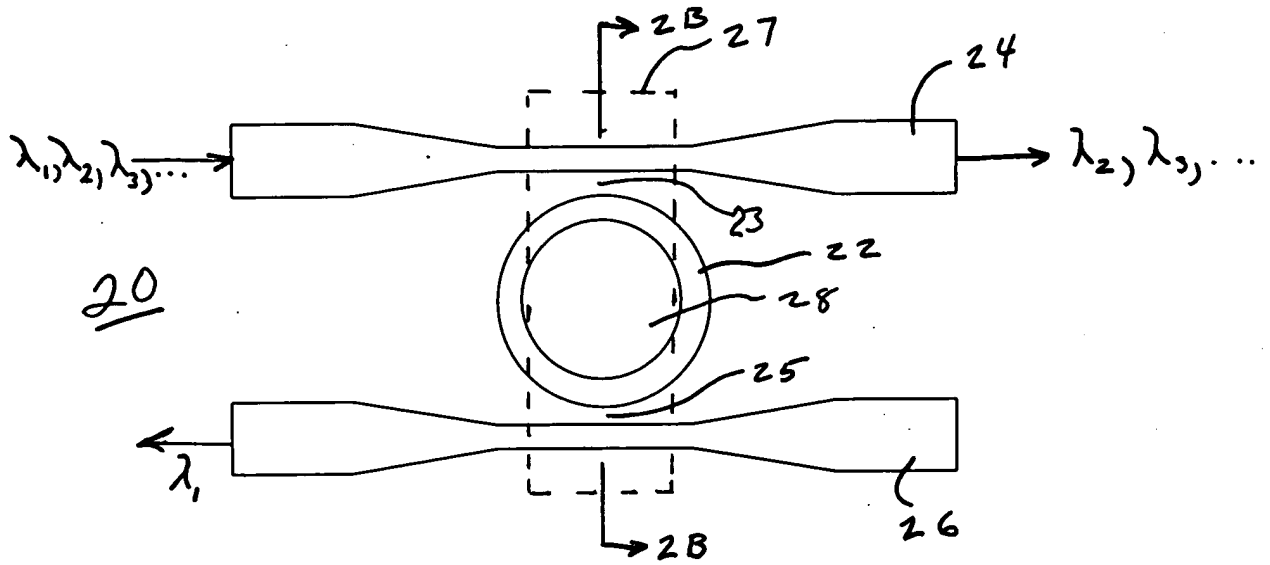


Fig. 2B

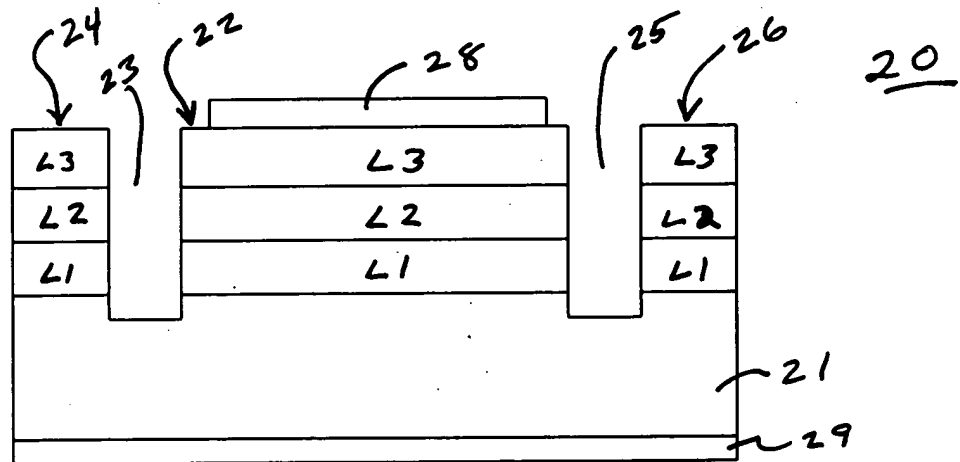


Fig. 3A

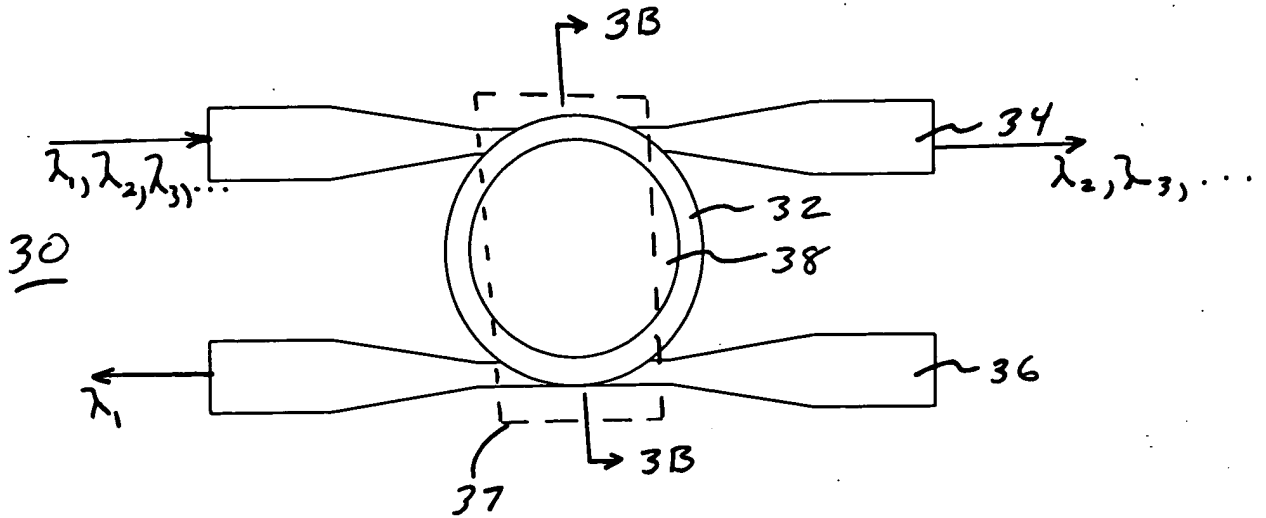
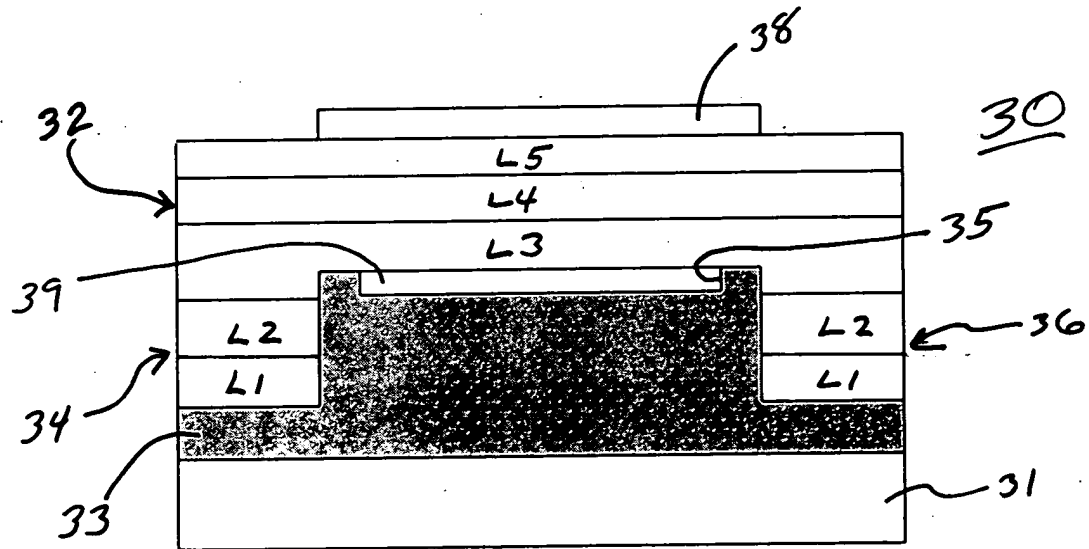
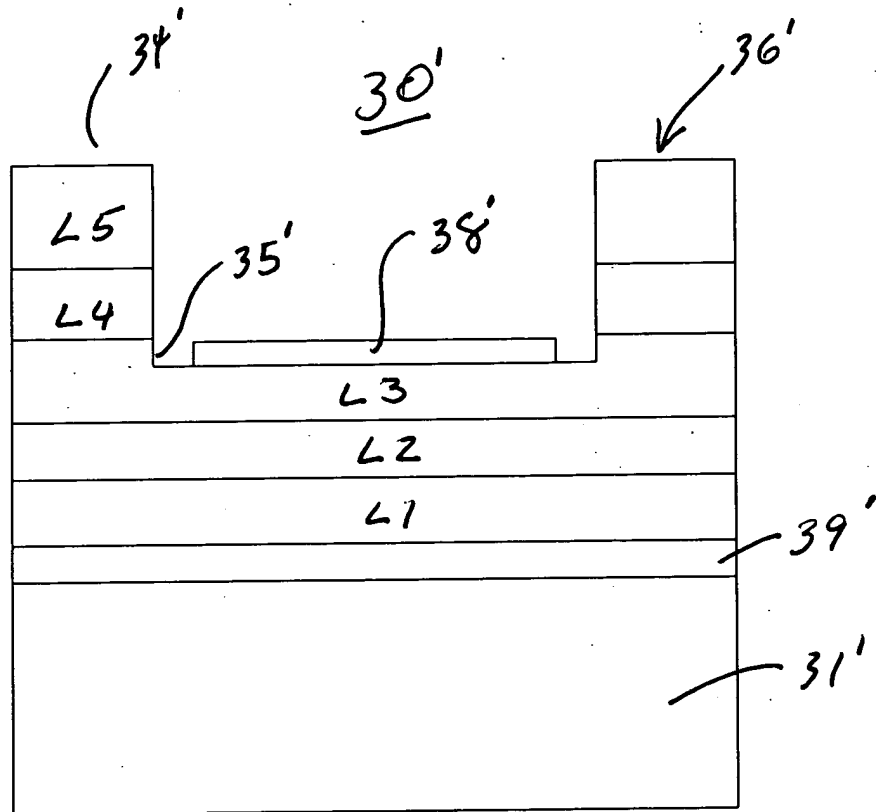


Fig. 3B



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FIG. 3C



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Fig. 4A

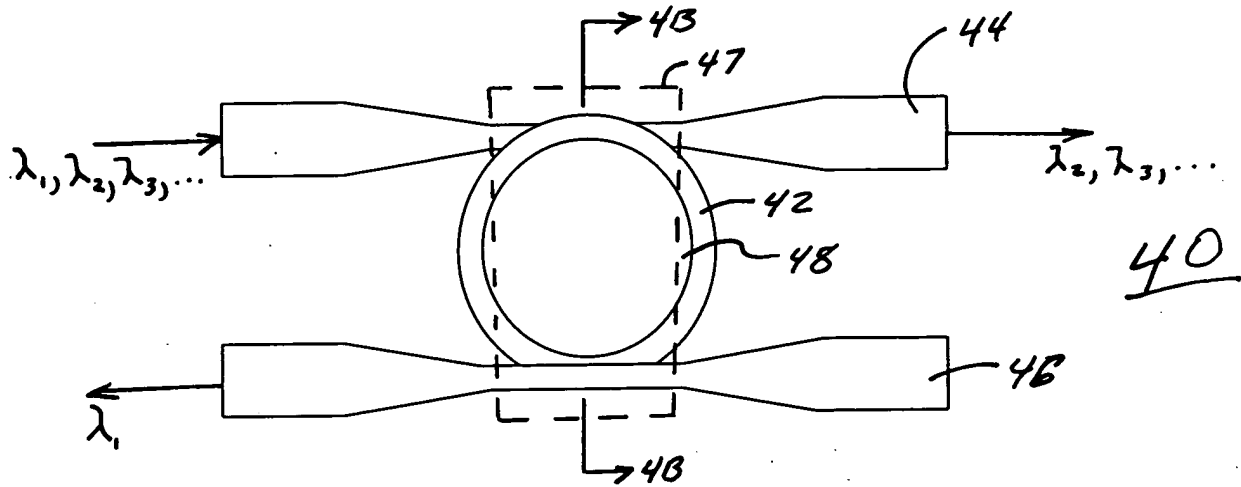
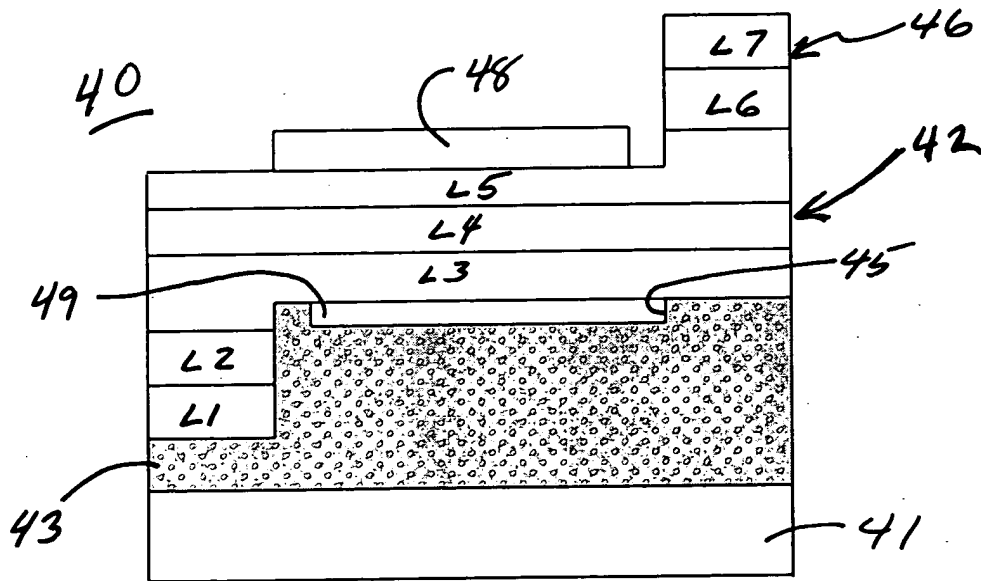


Fig. 4B



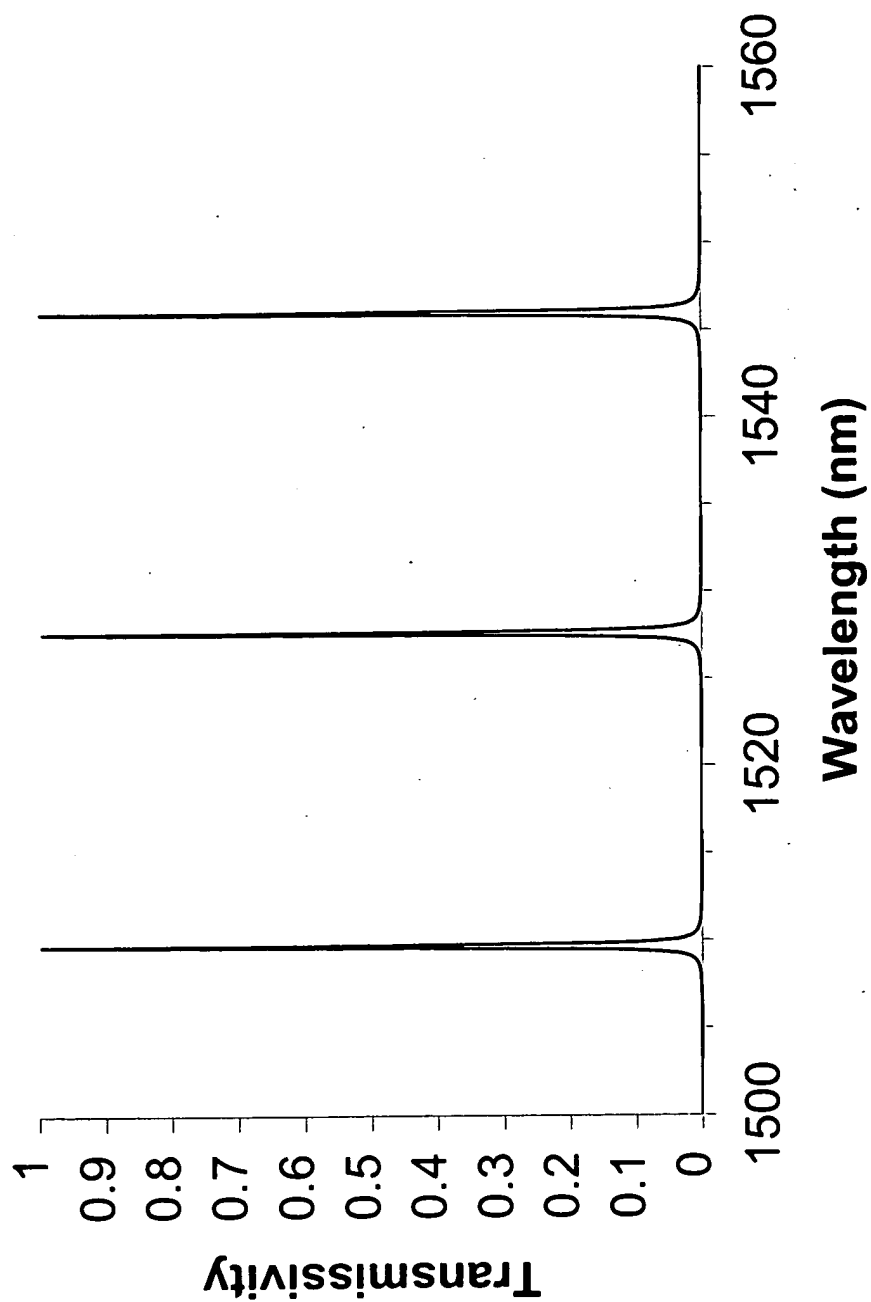


Fig. 5

2051624230US

Fig. 6A

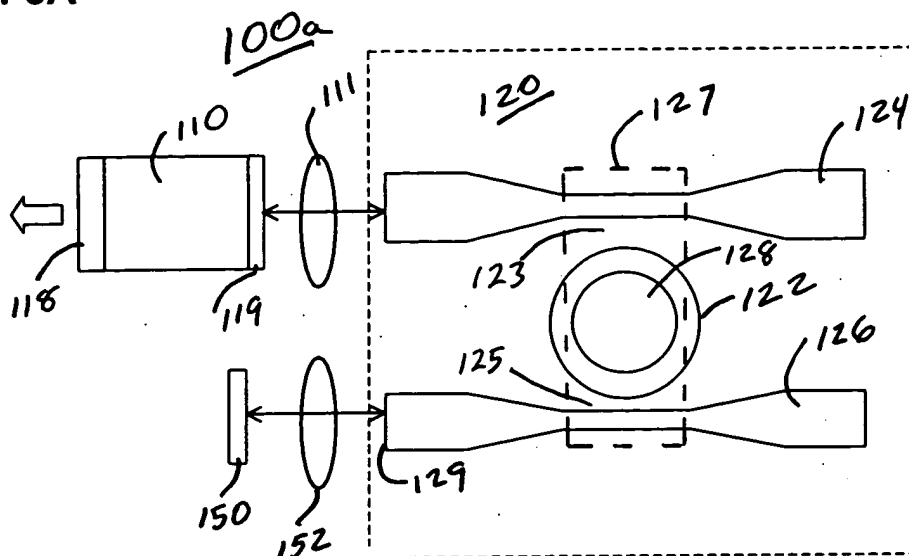
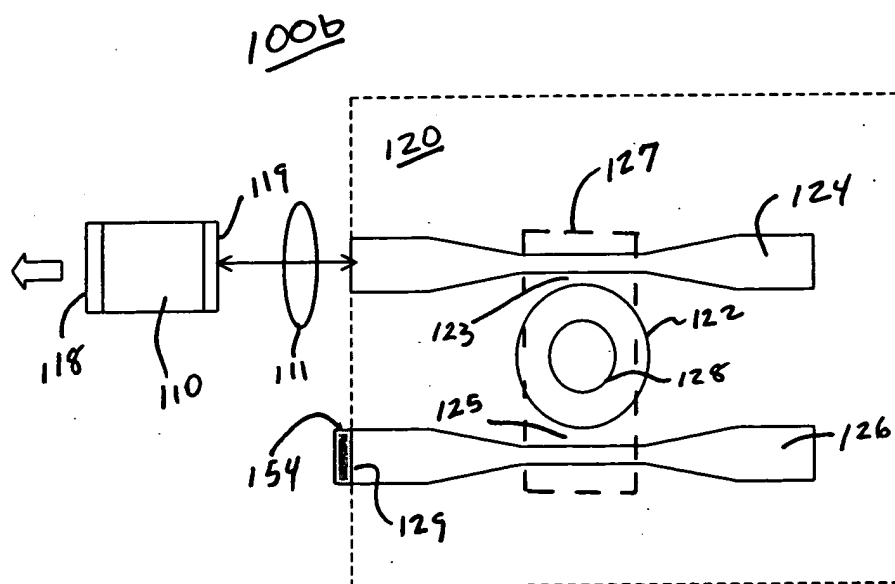


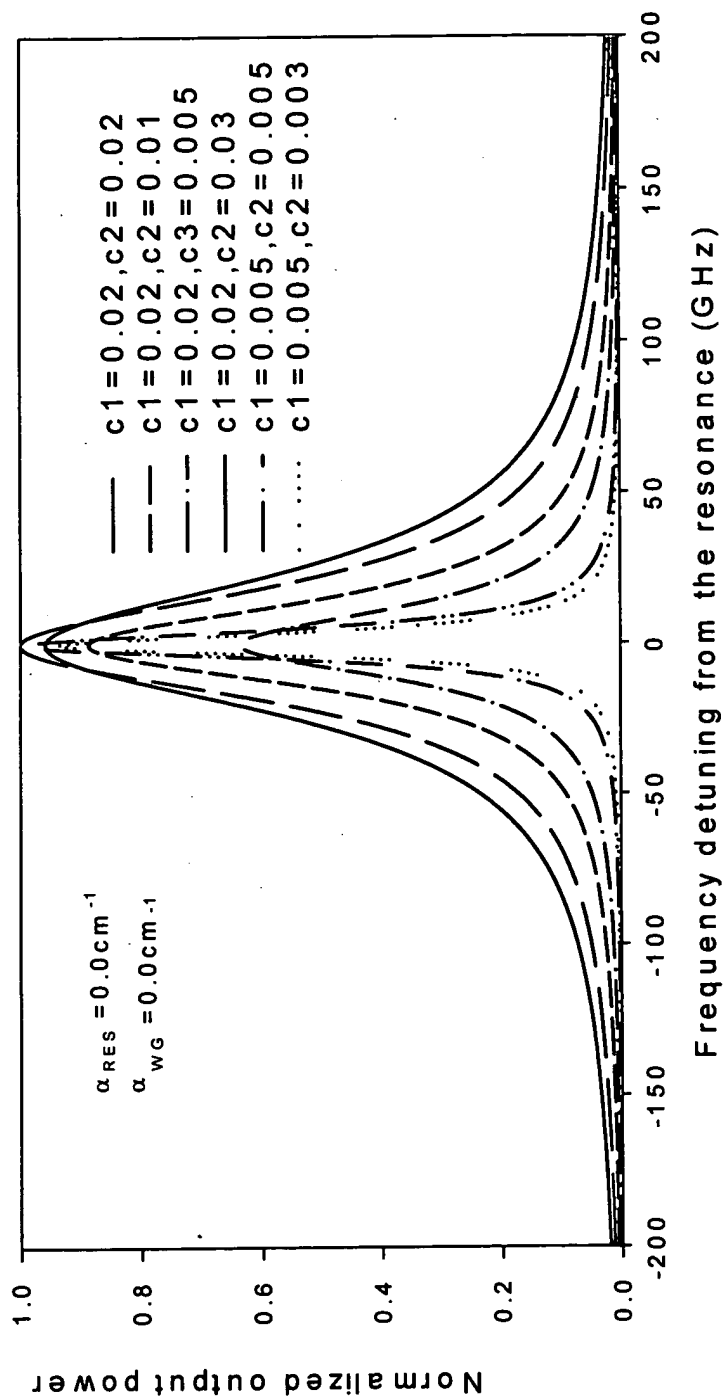
Fig. 6B



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Fig. 7

Imbalance coupling effect on single resonator output



Multiple resonators

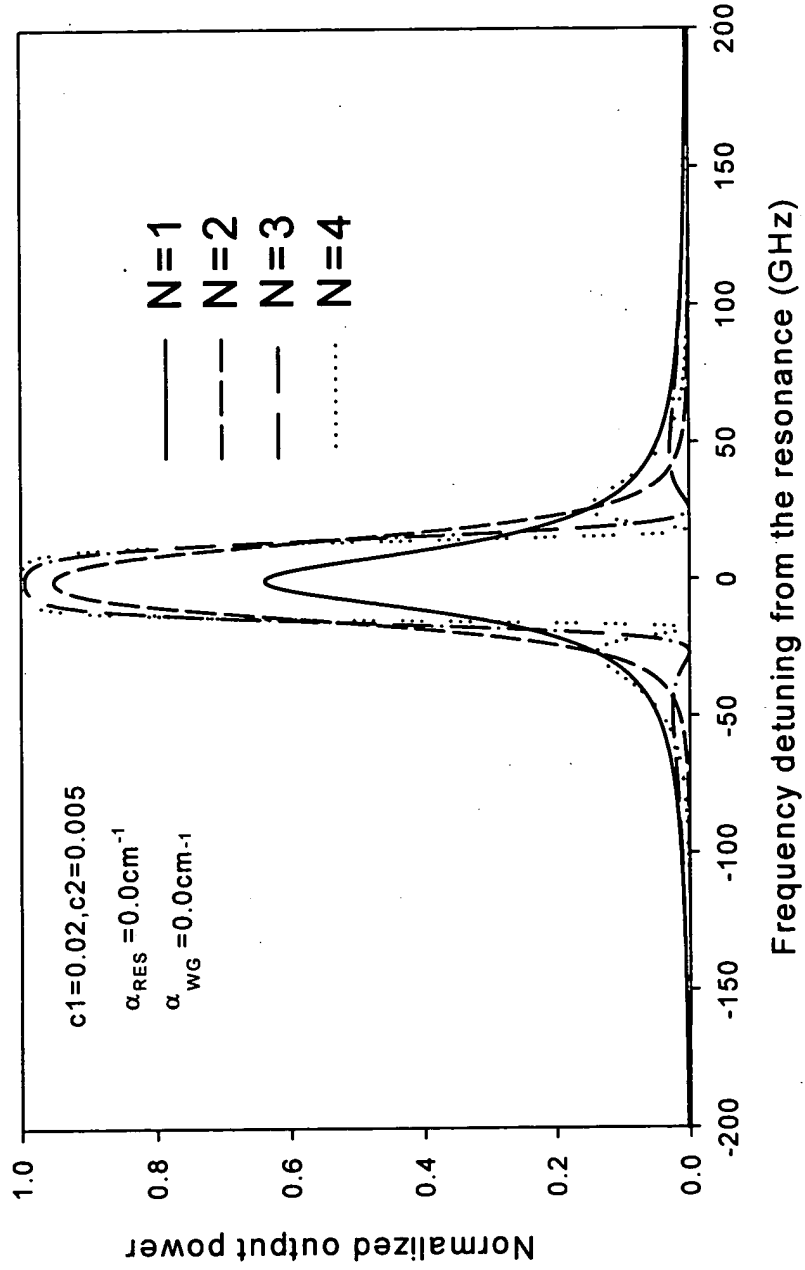


Fig. 8

Multiple resonators

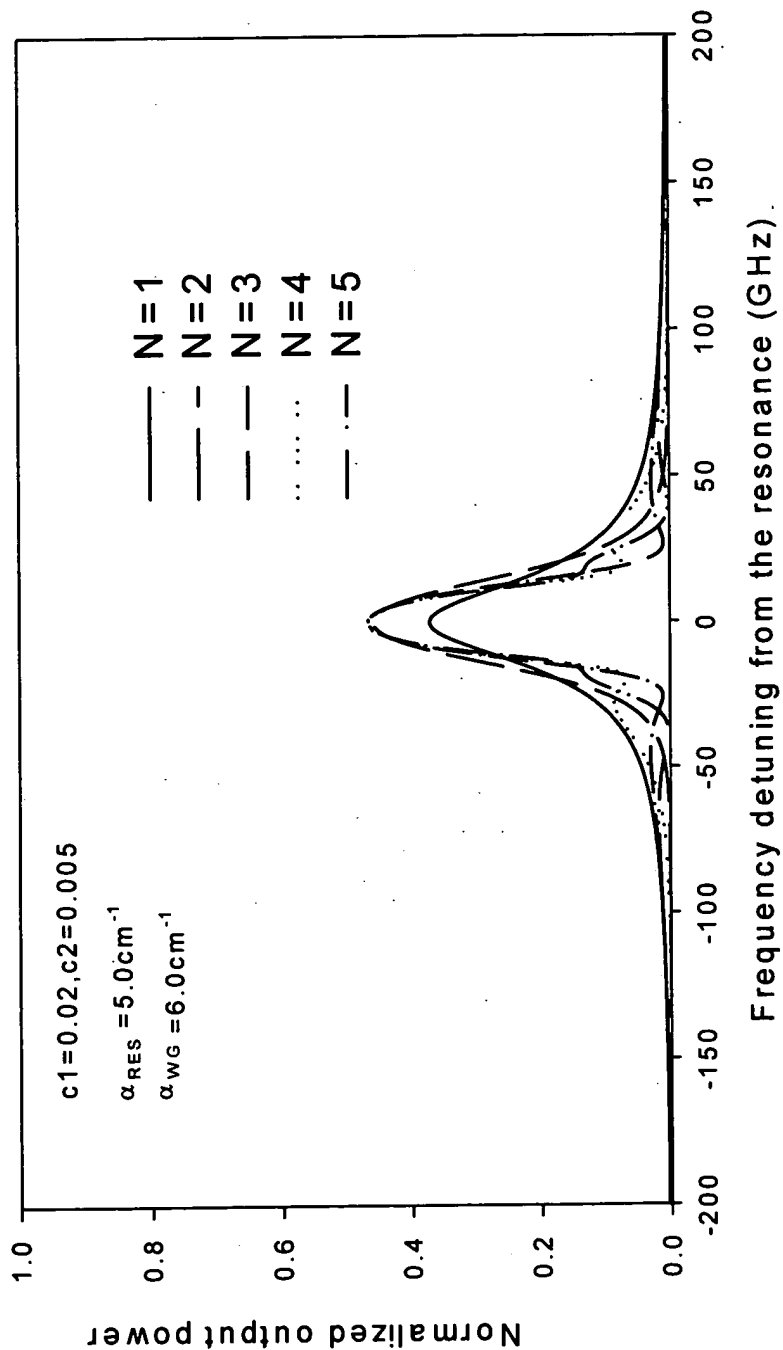


Fig. 9

Multiple resonators

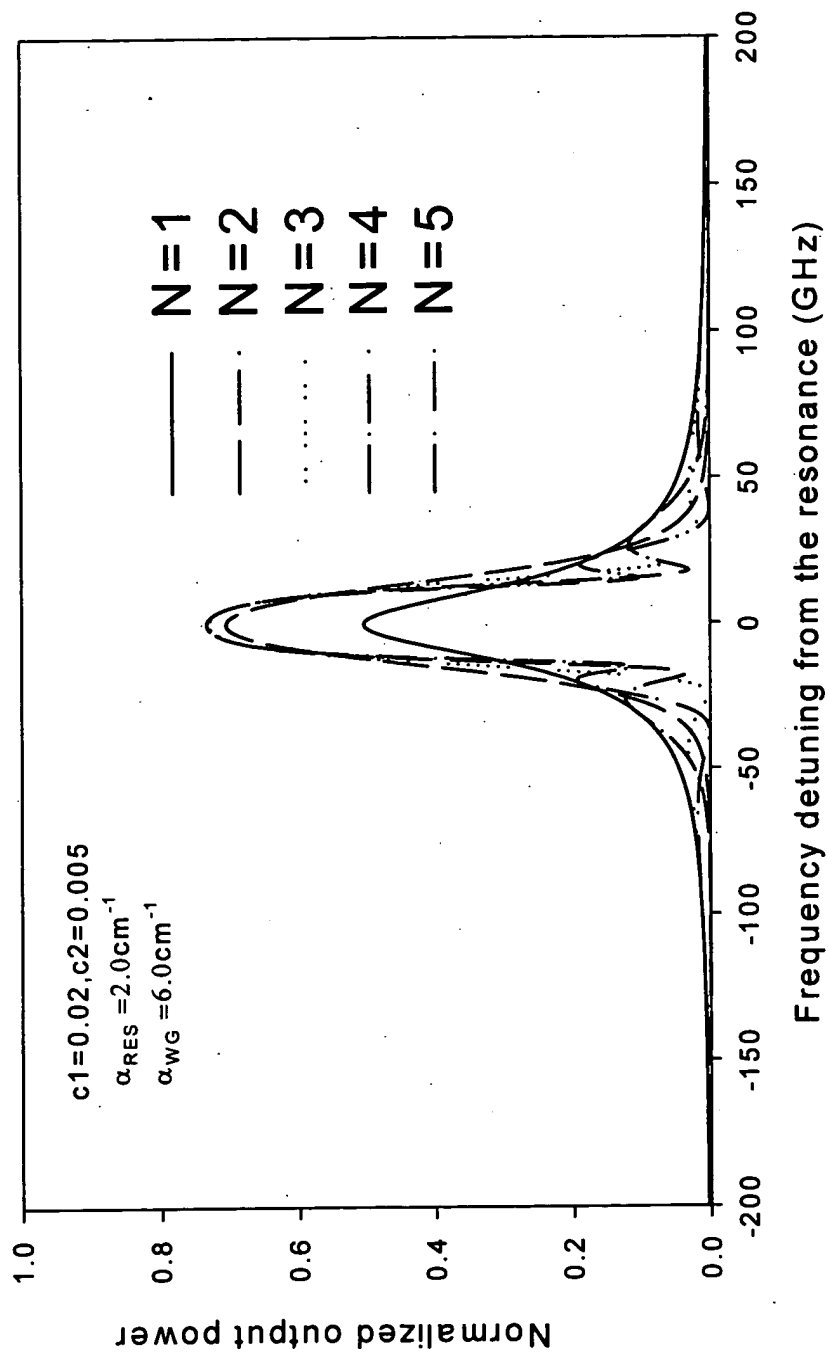


Fig. 10

Fig. 11

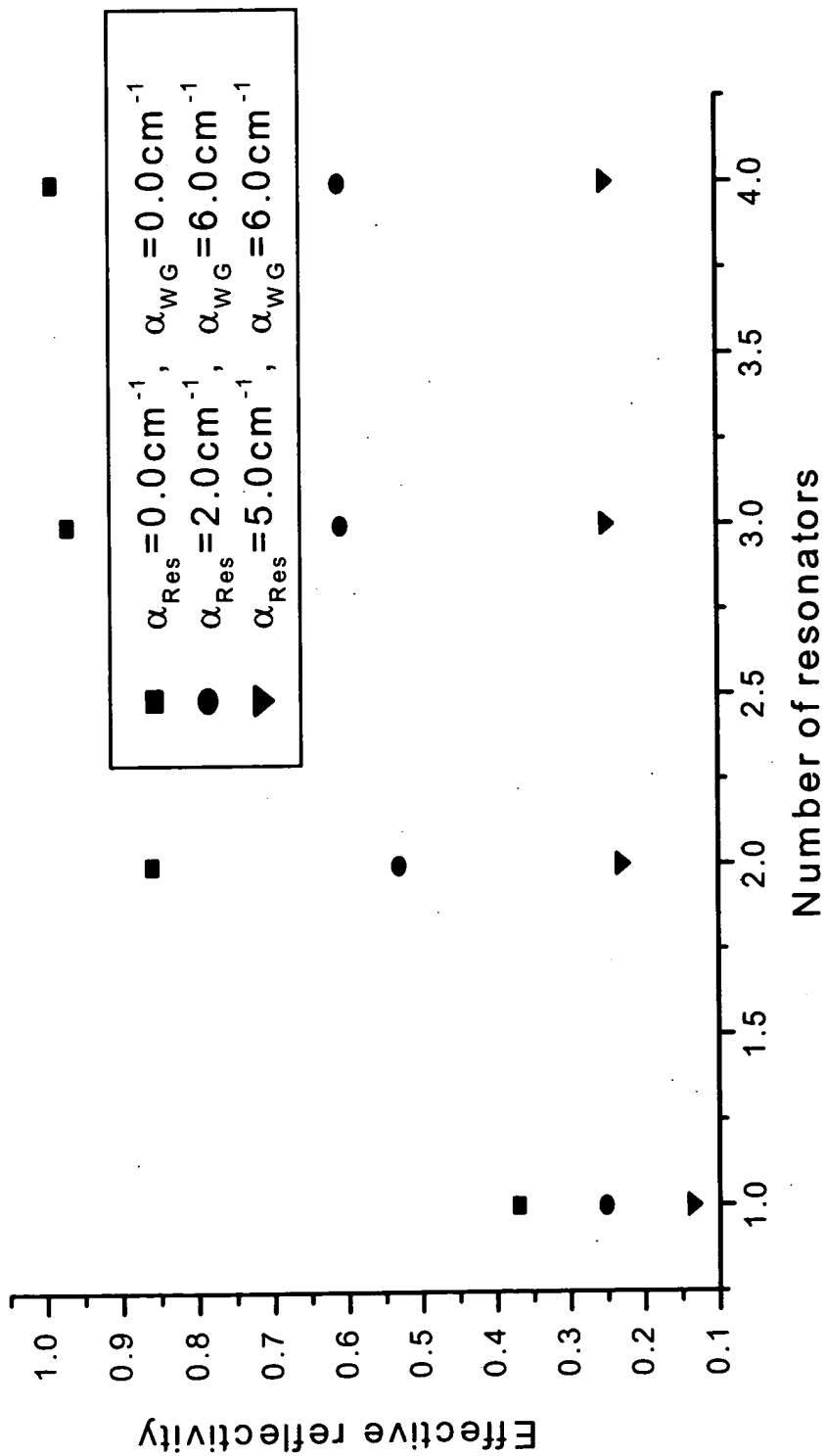


Fig. 12A

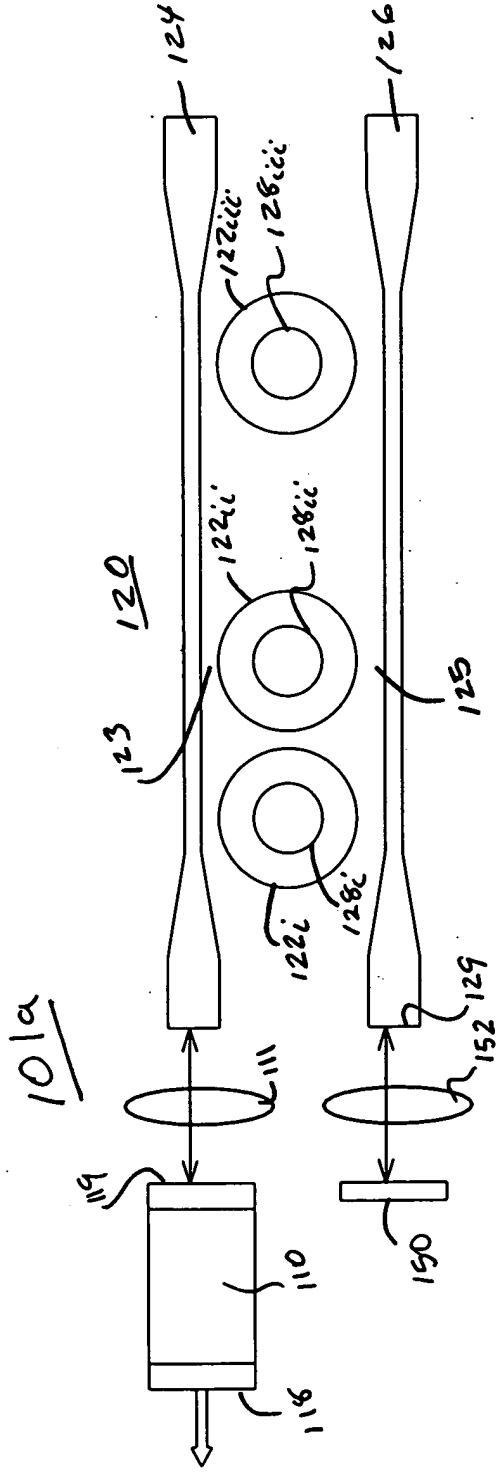


Fig. 12B

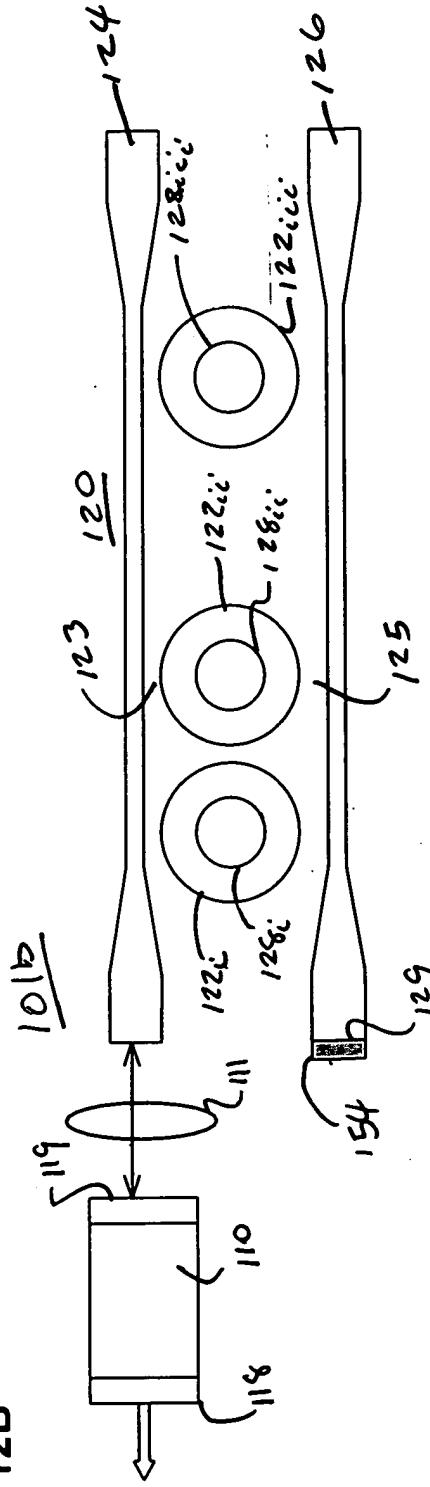


Fig. 13A

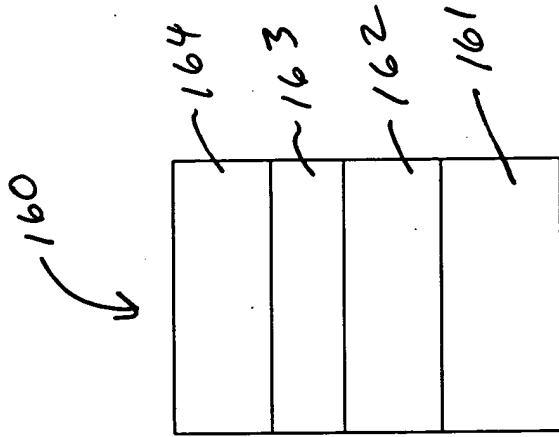


Fig. 13B

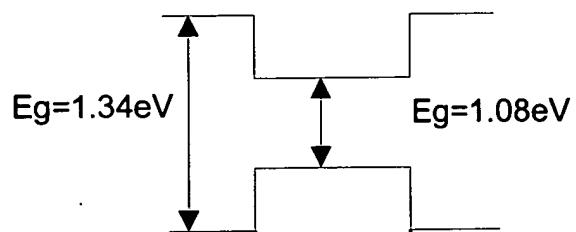
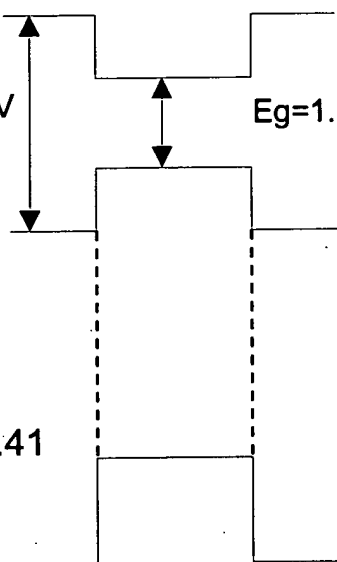


Fig. 13C

$n_{\text{InGaAsP}} = 3.41$

$n_{\text{InP}} = 3.17$



Refractive index change at $\lambda=1.55\mu\text{m}$

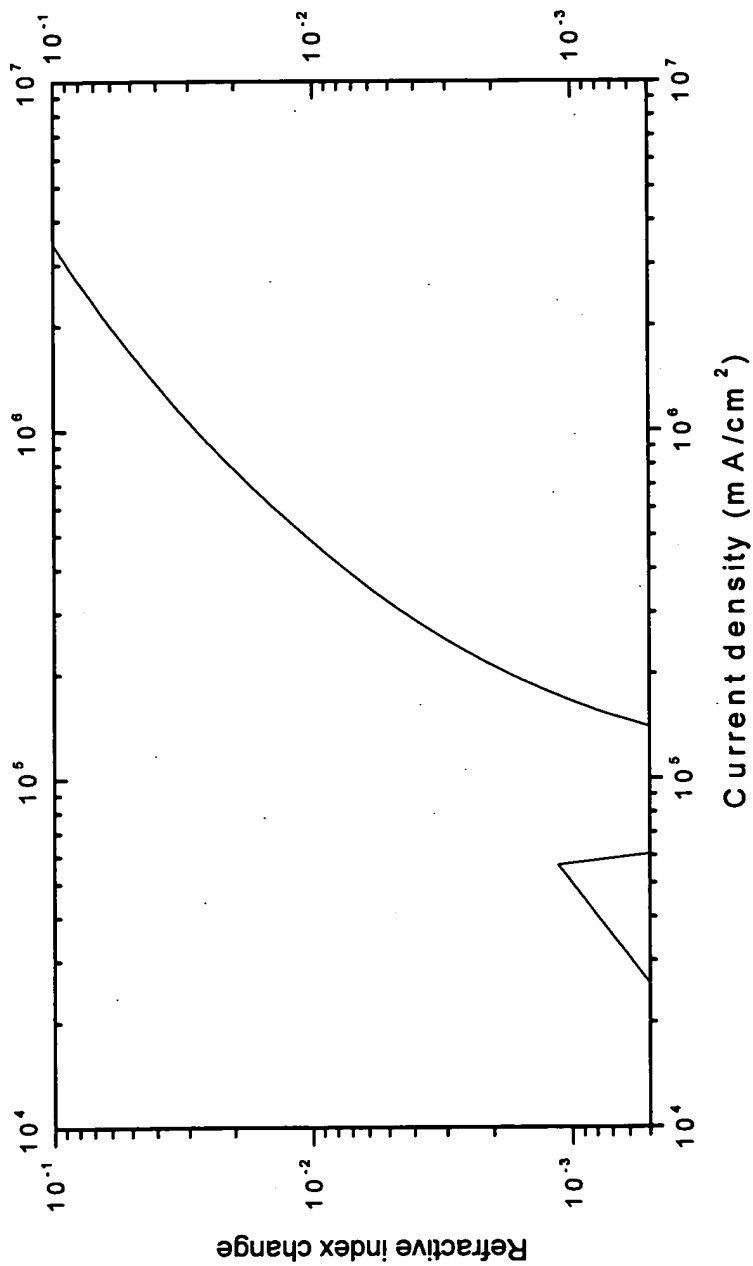


Fig. 14

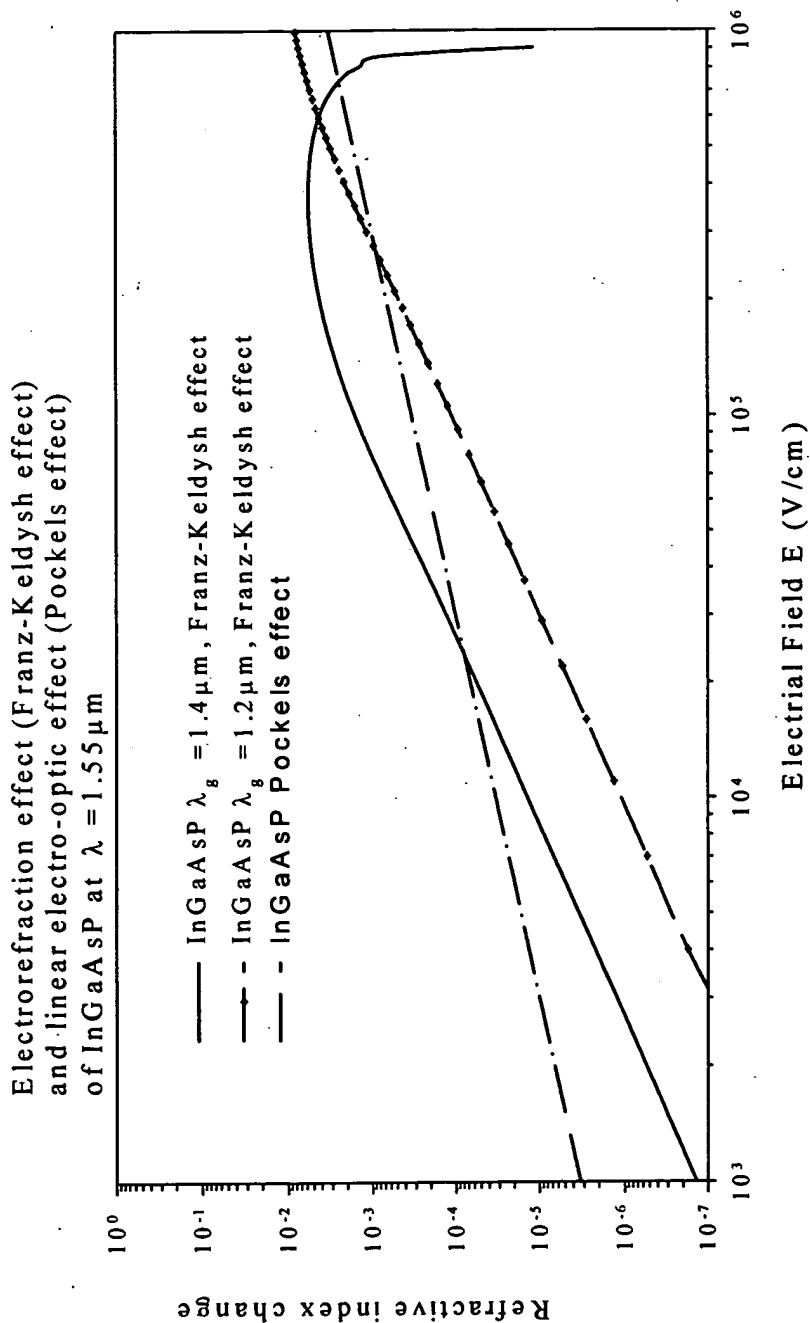


Fig. 15

Fig. 16A

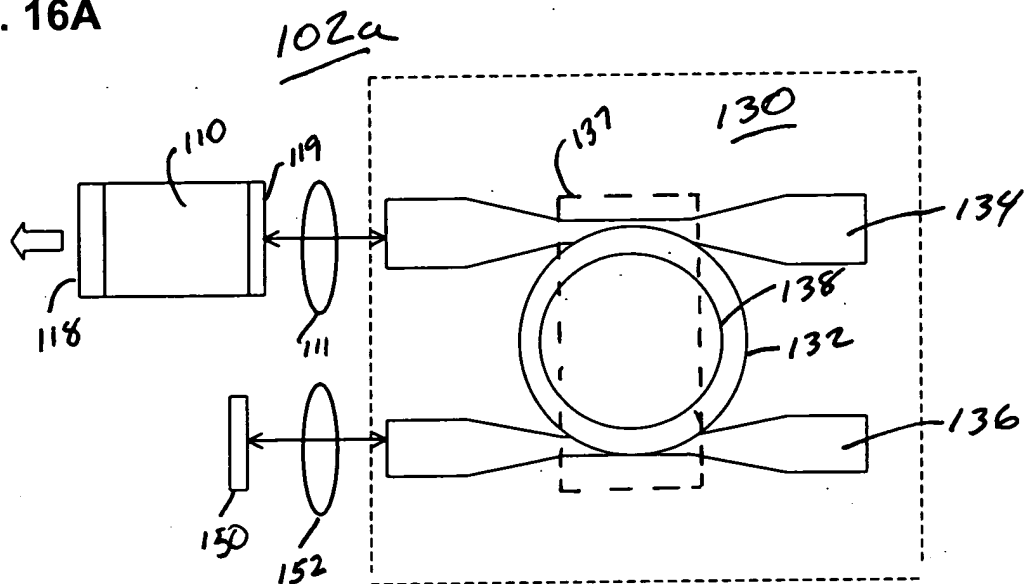


Fig. 16B

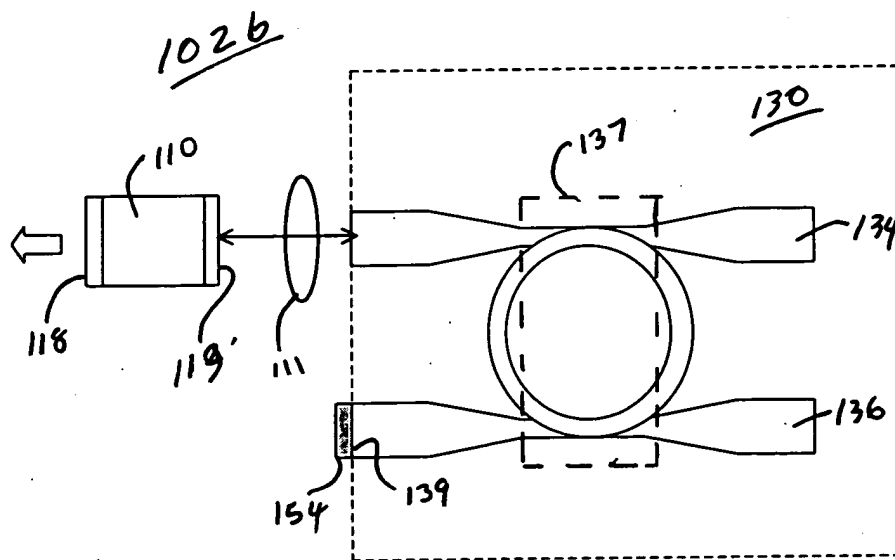


Fig. 17A

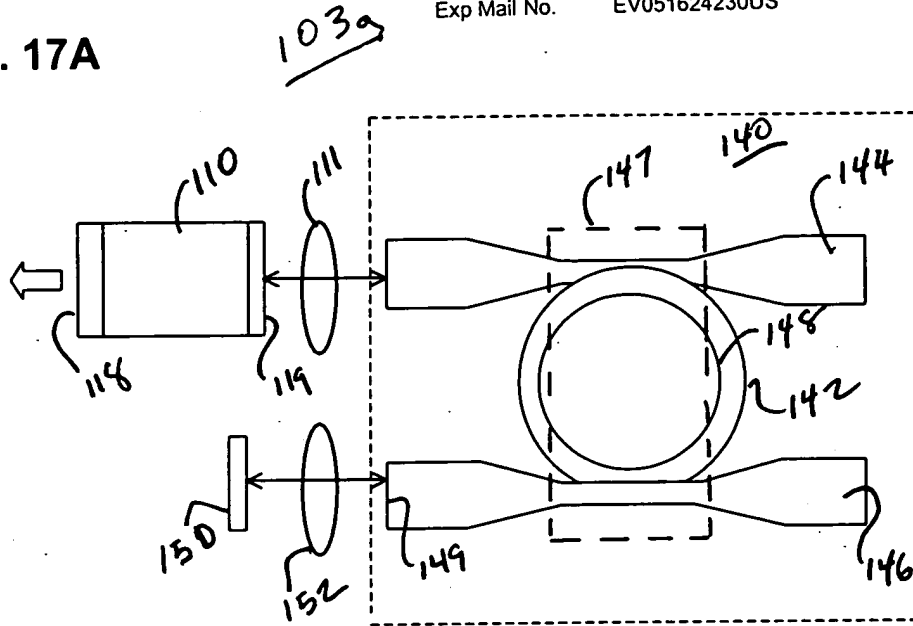


Fig. 17B

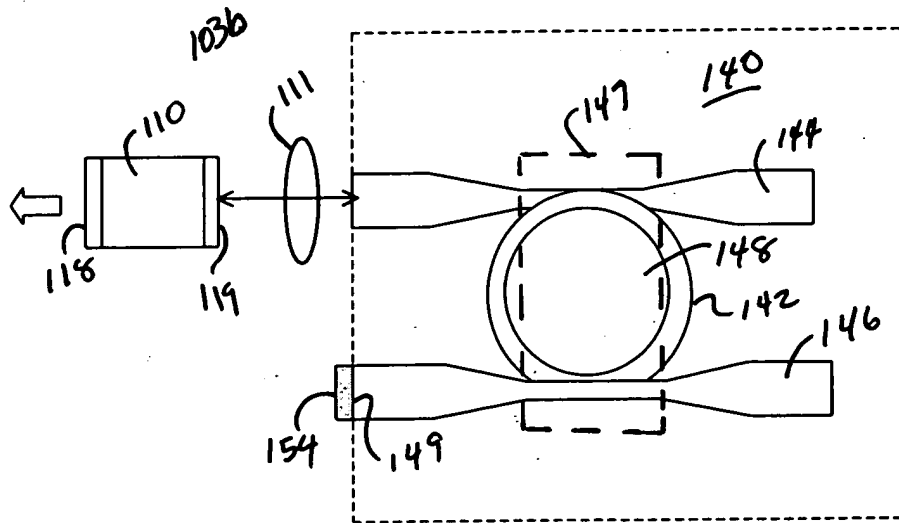


Fig. 18A

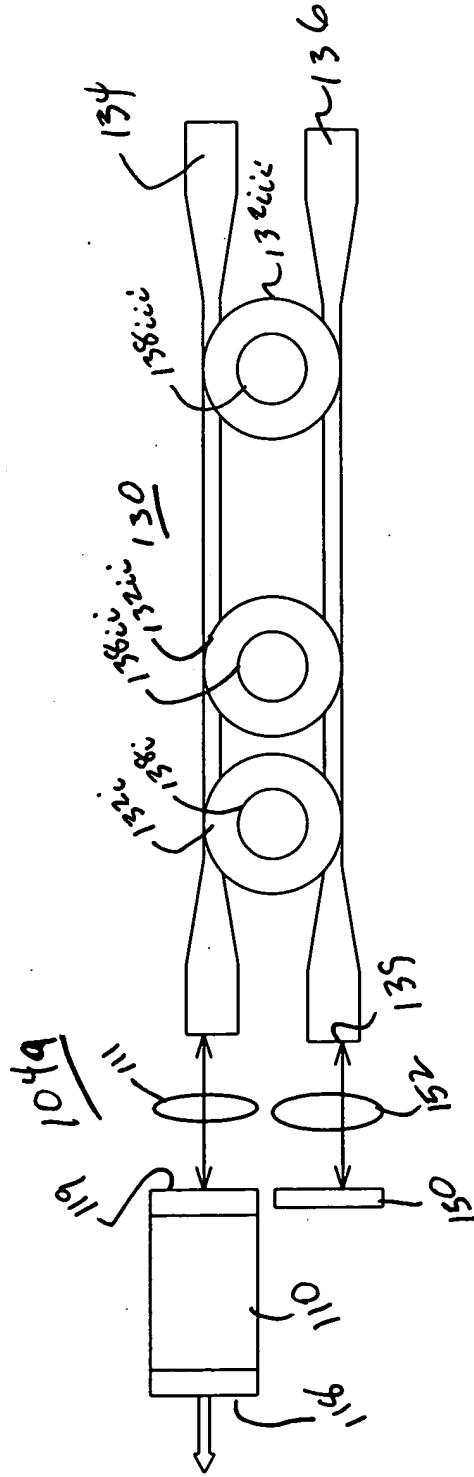


Fig. 18B

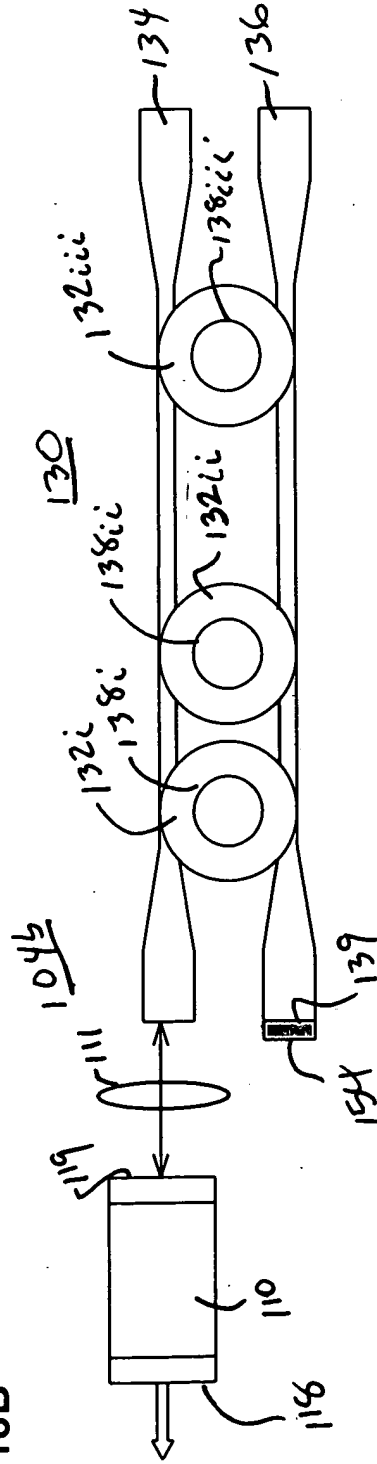


Fig. 19A

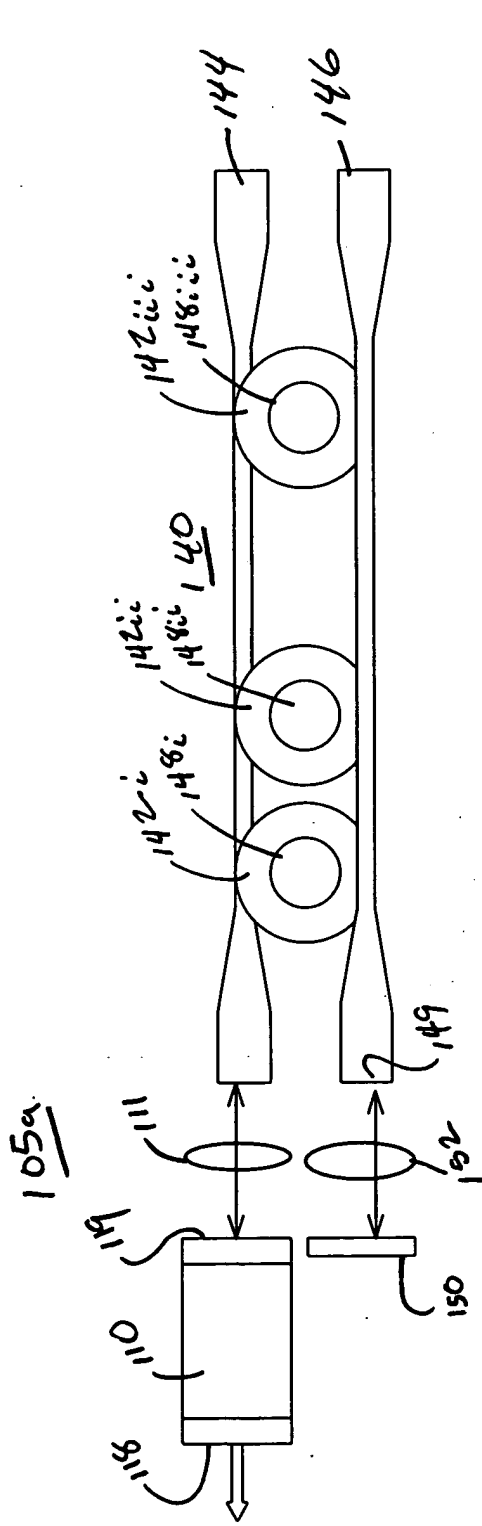


Fig. 19B

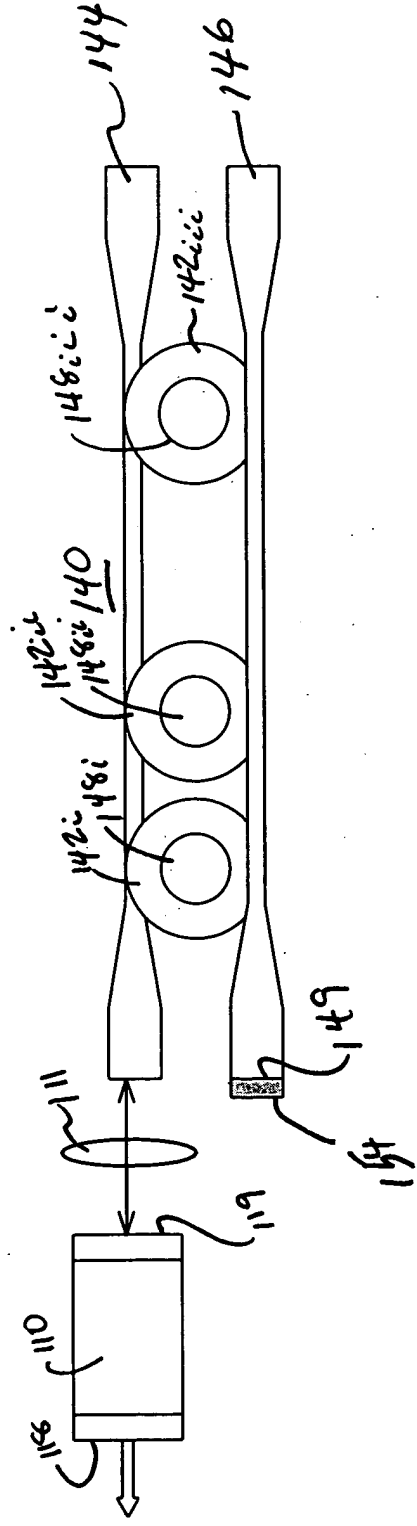
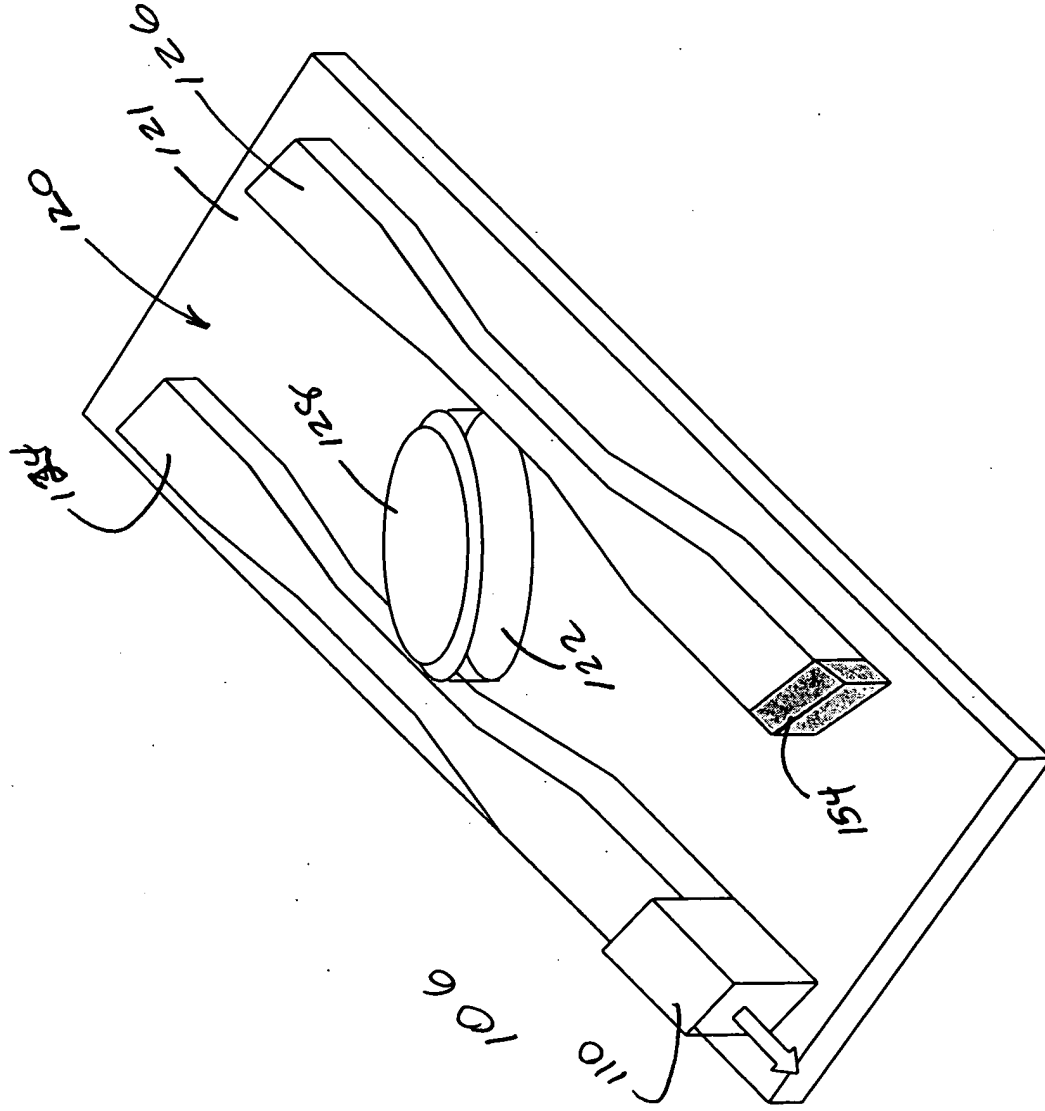


Fig. 20A



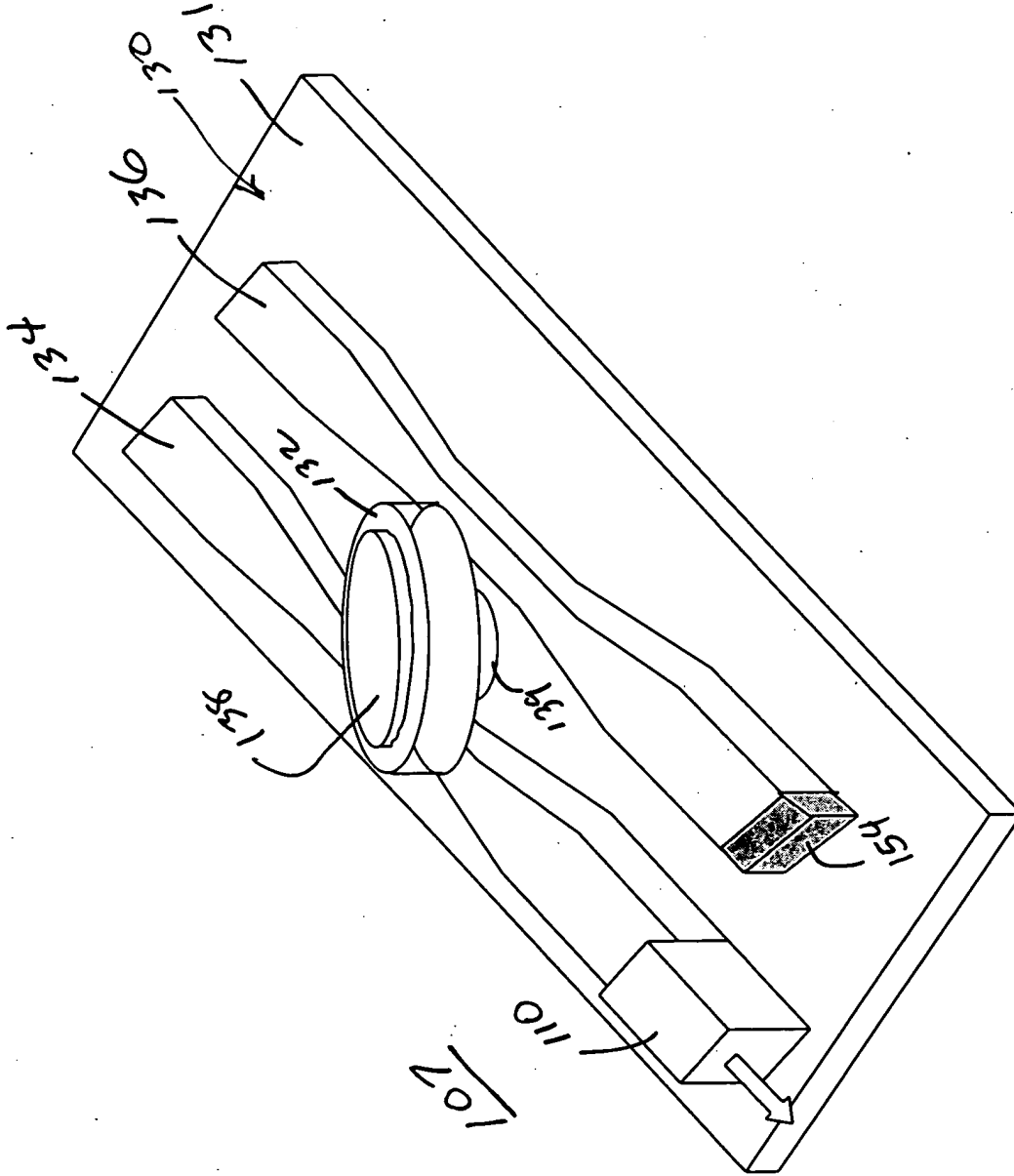


Fig. 20B

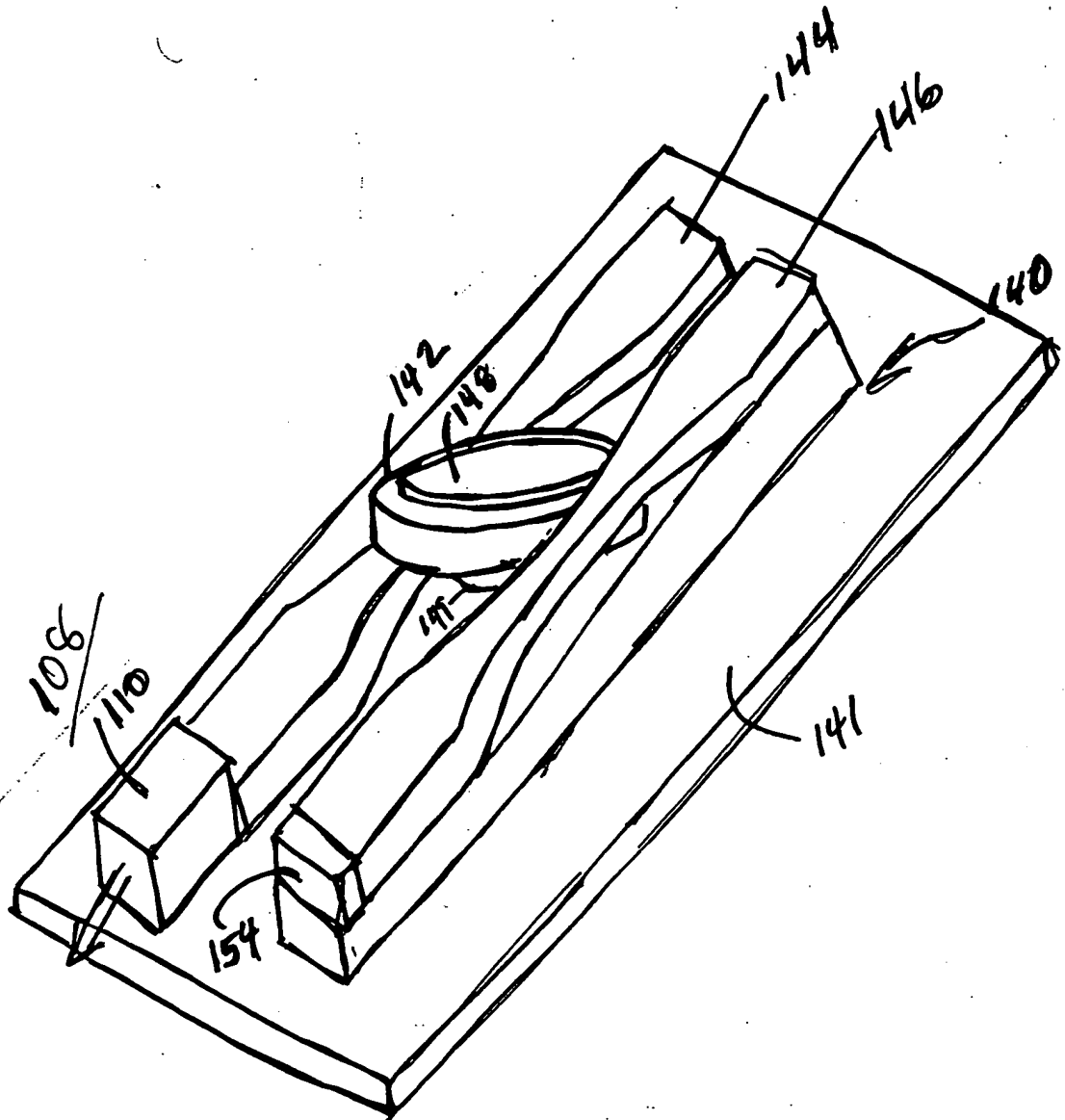


FIG. 20C

2051624230US

Fig. 21 A

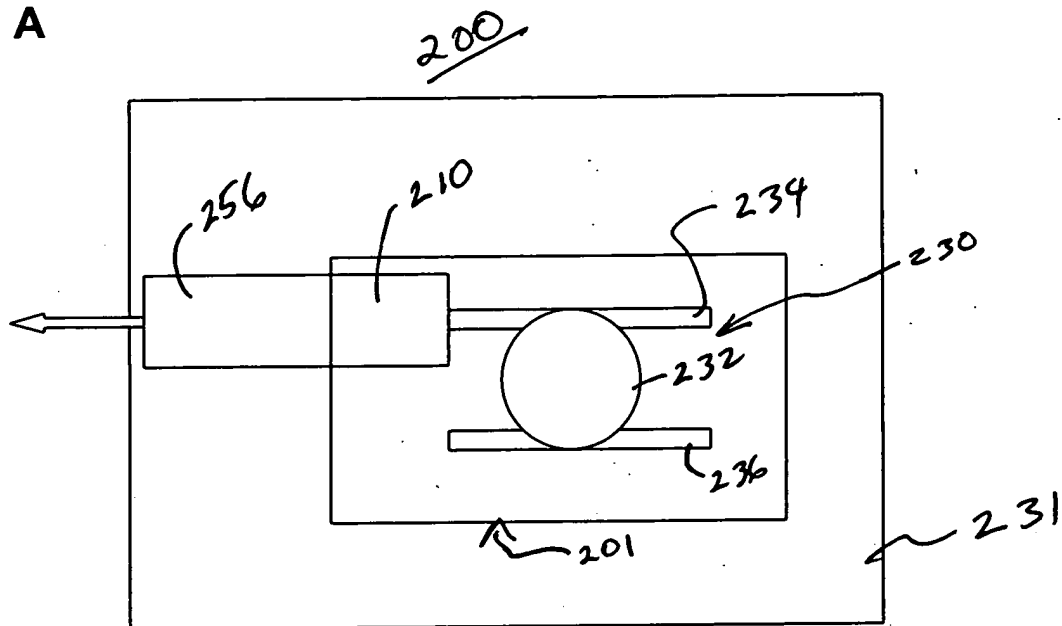
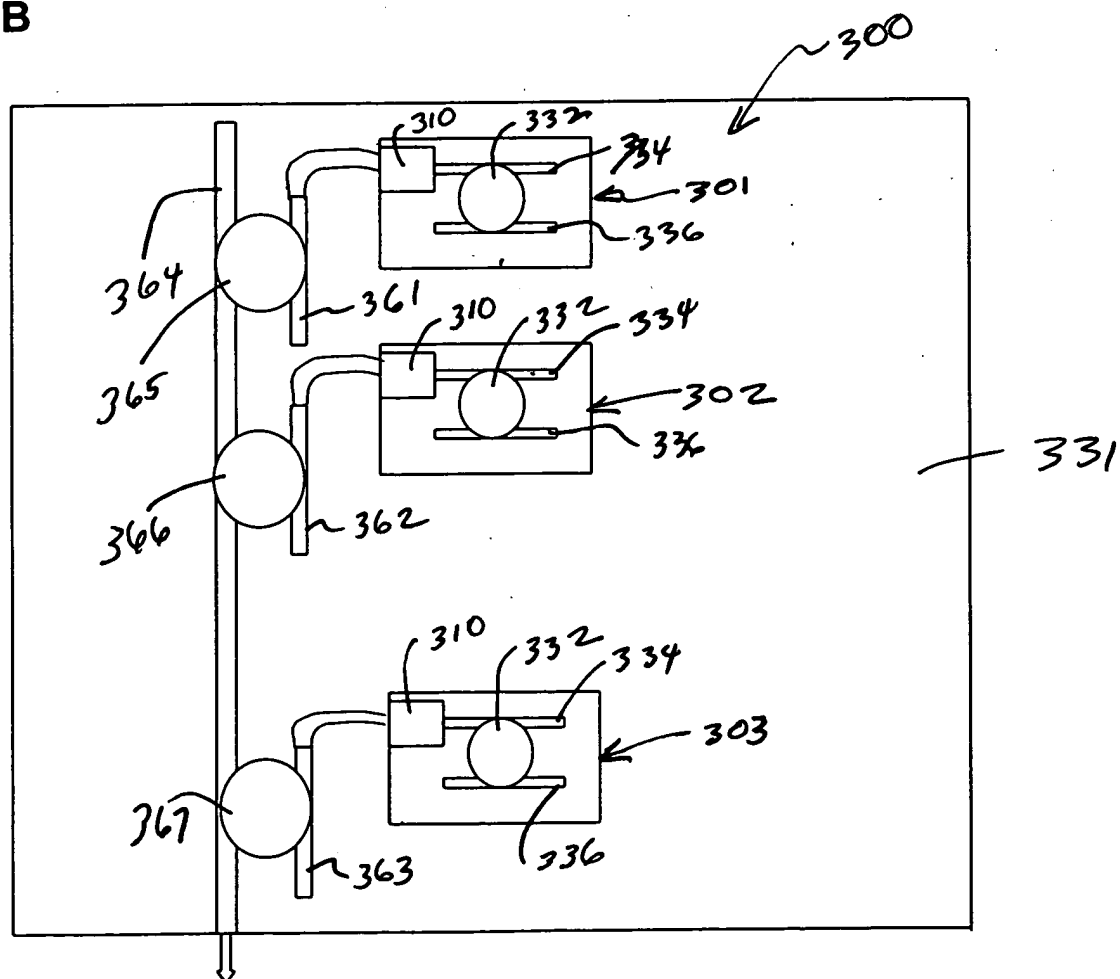


Fig. 21 B



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Fig. 22 A

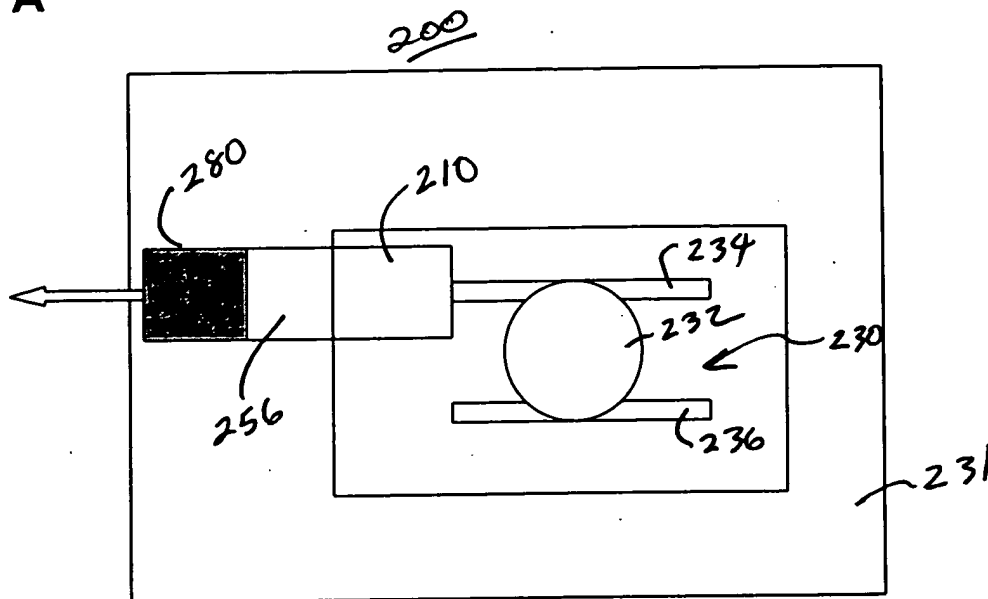


Fig. 22 B

